

New 6-O-demethyl-galanthamine derivs. - useful as anti-cholinesterase agents

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Abstract of NL8800350

Synthetic galanthamine derivs. of formula (I) and their quaternised derivs. of formula (II) are new: R1 = H, OH or OCOR2; R2 = 1-5C alkyl or hydroxyalkyl; R3 = 1-5C alkyl, 2-5C alkenyl or benzyl; X = an anion. Also claimed are bifunctional derivs. of (I) and (II), e.g. obtained by quaternising (I) with a bifunctional alkyl halide or by reacting (I) or (II) with a bifunctional carbamoyl halide to form a biscarbamate linkage between the phenolic OH gps. - 6-O-Dimethyl-galanthamine, i.e. (I; R1=OH), has been isolated from plants but never synthesised. - N-allyl-6-O-dimethyl -galanthaminium iodide (IIa) and the correp. methyl sulphate (IIb).

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